RAW SEQUENCE LISTING PATENT APPLICATION US/09/120,044

1643

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1			SEQUENCE LISTING	}	ENTE	"	
2 3 4	(1) Ge	eneral Informa	ation:			: <i>P</i>	ED
5 6 7 8 9 10	(i)	APPLICANTS:	MINETTI, CONCEICAO; MICHON, FRANCIS; PULLEN, JEFFREY K.; POLDVINO-BODNAR, MARYELLEN LIANG, SHU-MEI; TAI, JOSEPH Y.	i ;	ग ट		
12 13 14	(ii)	TITLE OF INV PNEUMOLYSIN	ZENTION: MODIFIED IMMUNOGENIC COMPOSITIONS AS VACCINES	C		FOR 13	RECEIVED
15 16	(iii)	NUMBER OF SE	QUENCES: 18		. KA	<u>-</u>	
17 18 19 20 21 22 23	(iv)	(B) STREET: (C) CITY:	EE: MORGAN & FINNEGAN, L.L 345 PARK AVENUE NEW YORK NEW YORK : USA	.P.	1690 HAIL ROOM	2000	ED
25 26 27 28 29 30	(V)	(A) MEDIUM (B) COMPUTE (C) OPERATI	DABLE FORM: TYPE: FLOPPY DISK R: IBM PC COMPATIBLE NG SYSTEM: PC-DOS/MS-DOS E: MICROSOFT WORD 97				
31 32 33 34 35	(Vi)	(A) APPLICA	ICATION DATA: TION NUMBER: 09/120,044 DATE: 1998-07-21 ICATION:	+			·
36 37 38 39	(vii)		ATION DATA: TION NUMBER: 60/053,306 DATE: 1997-07-21				,
40 41 42 43	(vii)	PRIOR APPLICA (A) APPLICA (B) FILING	CATION DATA: TION NUMBER: 60/073,456 DATE: 1998-02-02				
44 45 46	(viii)	(A) NAME: DA	NT INFORMATION: ARRYL H. STEENSMA ATION NUMBER: 43,155				

RAW SEQUENCE LISTING PATENT APPLICATION US/09/120,044

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53		
54	(C) REFERENCE/DOCKET NUMBER: 1758-4036US2	
55	•	
56	(ix) TELECOMMUNICATION INFORMATION:	
57	(A) TELEPHONE: (212) 758-4800	
58	(B) TELEFAX: (212) 751-6849	
59	(C) TELEX: 421792	
60	(-, -====	
61		
62	(2) INFORMATION FOR SEQ ID NO:1:	
63	(4)	
64	(i) SEQUENCE CHARACTERISTICS:	
65	(A) LENGTH: 1413	
66	(B) TYPE: nucleic acid	
67	(C) STRANDEDNESS: double	
68	(D) TOPOLOGY: linear	
69	(b) Islandi. Illical	
70	(ii) MOLECULE TYPE: cDNA	
71	(11) Haddadd III I Com	
72	(Vi) ORIGINAL SOURCE:	
73	(A) ORGANISM: S. pneumoniae	
74	(A) OKOANIDM: D. Phedmoniae	
75	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
76	(all all all all all all all all all al	
77	atggcaaata aagcagtaaa tgactttata ctagctatga	40
78	55 Sayanan agamatan atagatan aga	40
79	attacgataa aaagaaactc ttgacccatc agggagaaag	80
80	3	00
81	tattgaaaat cgtttcatca aagagggtaa tcagctaccc	120
82		120
83	gatgagtttg ttgttatcga aagaaagaag cggagcttgt	160
84		100
85	cgacaaatac aagtgatatt tctgtaacag ctaccaacga	200
86	5 5 5 S S S S S S S S S S S S S S S S S	200
87	cagtcgcctc tatcctggag cacttctcgt agtggatgag	240
88	5 5 33.5	~10
89	accttgttag agaataatcc cactcttctt gcggtcgatc	280
90	5	200
91	gtgctccgat gacttatagt attgatttgc ctggtttggc	320
92		020
93	aagtagcgat agctttctcc aagtggaaga tcccagcaat	360
94		500
95	tcaagtgttc gcggagcggt aaacgatttg ttggctaagt	400
96		
97	ggcatcaaga ttatggtcag gtcaataatg tcccagctag	440
98		
99	aatgcagtat gaaaaaatca cggctcacag catggaacaa	480
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100

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101					
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107				•	
108	ctcaaggtca	a agtttggttd	c tgactttgaa	a aagacaggga	520
109					
110	attctcttga	a tattgattti	t aactctgtc	c attcaggcga	560
111					
112	aaagcagatt	: cagattgtta	a attttaagca	a gatttattat	600
113			_		
114	acagtcagcg	, tagacgctgt	taaaaatcca	a ggagatgtgt	640
115	4 4				
116 117	ttcaagatac	: tgtaacggta	a gaggatttaa	aacagagagg	680
118	22+++++				
119	aatttetgea	gagcgtcctt	: tggtctatat	ttcgagtgtt	720
120	aattataaa				
121	gertatggge	gecaagteta	tctcaagttg	gaaaccacga	760
122	ataaaaataa	+~~~~+~~~			
123	gcaagagcga	ryaaytagag	gergerring	, aagctttgat	800
124	aaaaggagtc	aaggtaggta	atasass		
125	uuuuggugtt	aaggtagete	cicagacaga	gtggaagcag	840
126	attttggaca	atacacaact	assagggett	a++++	
127		acacagaagt	gaaggeggee	attttagggg	880
128	gcgacccaag	ttcaaatacc	caaattataa	caggcaaggt	000
129	J J j		ogageegeaa	caggcaaggt	920
130	ggatatggta	gaggacttga	ttcaagaagg	cagtcgcttt	960
131	55	3 33		ougeogeee	960
132	acagcagatc	atccaggett	gccgatttcc	tatacaactt	1000
133					1000
134	cttttttacg	tgacaatgta	gttgcgacct	ttcaaaatag	1040
135					1010
136	tacagactat	gttgagacta	aggttacagc	ttacagaaac	1080
137					1000
138	ggagatttac	tgctggatca	tagtggtgcc	tatgttgccc	1120
139					
140	aatattatat	tacttggaat	gaattatcct	atgatcatca	1160
141					
142	aggtaaggaa	gtcttgactc	ctaaggcttg	ggacagaaat	1200
143					
144	gggcaggatt	taacggctca	ctttaccact	agtattcctt	1240
145 146	.				
145	taaaagggaa	tgttcgtaat	ctctctgtca	aaattagaga	1280
148					
140	grgraceggg	cttgcttggg	aatggtggcg	tacggtttat	1320
150	7222227	n+++			
151	yaaaaaaccg	atttgccact	agtgcgtaag	cggacgattt	1360
152	ctatt+aaaa	aacaactct-	+o+aa====	4 .	
		aacaactctc	caccegeagg	tagaagataa	1400

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153					2112 0
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161 162	ggtagaaaat	gac			1413
163					
164	/2\ TNEODMA	ATTON FOR C	EQ ID NO:2:		
165	(2) INFORMA	ATTOM FOR S	EO ID MO:7:		
166	(i) SE	OUENCE CHA	RACTERISTIC	c.	
167		(A) LENGTH:	1413		
168	•	• •	nucleic aci	đ	
169		(C) STRANDE		ble	
170	•	(D) TOPOLOG		210	
171	``	,			
172	(ii) MO	LECULE TYP	E: cDNA		
173					
174		RIGINAL SOU			
175	(A) ORGANIS	M: S. pneum	oniae	
176					
177	(xi) SE	QUENCE DES	CRIPTION: S	EQ ID NO:2:	
178					
179 180	atggcaaata	aagcagtaaa	tgactttata	ctagctatga	40
181	o++oa==+==		A.A		
182	attacgatan	aaanaaactc	ttgacccatc	agggagaaag	80
183	tattmaaaat	catttannan	2242444	+	
184	tattgaaaat	cycccanca	aayagggtaa	teagetacce	120
185	gntgagtttg	ttantancas	aanaaanaan	caasaattat	160
186	55-5-6-6	cegneanega	aagaaagaag	cggagettgt	160
187	cgacaaatac	aagtgatatt	nctatancaa	ctaccnacca	200
188	•	3 3			200
189	cagtcgcctc	tatcctggag	cacttctcqt	agtggatgag	240
190			_	5 55 5 5	
191	accttgtnag	agaataatcc	cactcttctt	gcggtngatc	280
192					
193	gtgctccgat	gacttatagt	antgntttgc	ctggtttggc	320
194					
195	aagtagcgat	agctttctcc	aagtggaaga	ncccagcaat	360
196	.				
197	tcaagtgttc	gcggagcggn	anacgatttg	ttggctaagt	400
198 199	~~~				
200	ggcatcaaga ·	ttatggtcag	gtcaataatg	tcccagctag	440
200	aangcagtat /	maaaaaa+na	aggatasss=	antaa	4.6.6
202	aangcagtat (yaaaaaa tiid	cygorcacag	catggaacaa	480
203	ctcaaggtca a	agtttggttc	taactttaaa	aagngaggg	E00
204	aayyeea (ageetggett	cyacticyaa	aayncayyya	520
205	attctcttga t	tattgattt+	aactototoo	attcadonda	560
-				accuagginga	200

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207					
208					
209 210					
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212					
213					
214	aaagcngatt	cagattgtta	atnttaagca	gatttattat	600
215					
216	acagtcagcg	tagacgctgt	taaaaatcca	ggagatgtgt	640
217 218	ttcaagatac	tataacaata	gaggatttaa	aacacacaca	680
219	cccaagacac	cgcaacggca	gaggacccaa	aacagagagg	000
220	aatttctgca	gagcgtcctt	tggtctatat	ttcgagngtt	720
221					
222	gcttatgggc	gccaagtcta	tctcaagttg	gaaaccacga	760
223 224		+			000
224	grangagrgn	tgaagtagag	gctgcttttg	aagetttgat	800
226	aaaaggagtc	aaggtagctc	ctcagacaga	atagaagcag	840
227	33 3	33 3		3.33	
228	attttggaca	atacagaagt	gaaggcggtt	attttagggg	880
229					
230 231	gcgacccaag	ttcgggtgcc	cgagttgtaa	caggcaaggt	920
231	ggatatggta	gaggacttga	ttcaagaagg	cagtcgcttt	960
233	ggatatggta	gaggaorega	cccaagaagg	dageogette	,,,,
234	acagcagatc	atccaggctt	gccgatttcc	tatacaactt	1000
235					
236	cttttttacg	tgacaatgta	gttgcgacct	ttcaaaanag	1040
237 238	+======+=+	attasasats	200++2020	++2020222	1080
239	tacagactat	grigagacia	aggttacagc	ccacagaaac	1000
240	ggagatttac	tgctggatca	tagtggtgcc	tatgttgccc	1120
241					
242	aatattatat	tacttggnat	gaattatcct	atgatcatca	1160
243					1000
244 245	aggtaaggaa	gtettgaete	ctaaggcttg	ggacagaaat	1200
246	gggcaggatt	tnacggctca	ctttaccact	agtattcctt	1240
247		33		3	
248	taaaagggaa	tgttcgtaat	ctctctgtca	aaattagaga	1280
249				1 141 1	
250 251	gtgtaccggg	cttgcntggg	aatggtggcg	tacggtttat	1320
252	даааааассд	atttgccact	agtgcgtaag	cagacaattt	1360
253	J		-9-9-9-0009	- 999	2000
254	ctatttgggg	aacaactctc	tatccncagg	tagangataa	1400
255					
256	ggtagaaaat	gac			1413
257 258					
230					

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